mailed 18/26/18

PERMIT TO CONSTRUCT

/ <u>x</u> /	New			
//	Renewal		Permit No. 78	-7.01
//	Modified			•
				:
		Reiman-Wuer	th Septic 3	
		(Name o	of Facility)	
	This	permit hereby author	orizes the applic	cant:
		·		
		Reiman-Wuerth C		
		(Last)	(First)	(Middle)
		501 East 15th S	treet (Street or P.0) Box)
		Cheyenne (City)	Laramie (County)	Wyoming 82001 (State)
to co	nstruct, ins	tall, or modify a _	Subsurface Disp	0\$a
facil	ity located	in Section 32,	T14, R66 (Legal Descript:	ion
		1	(regar pescripe.	•
in the	e County of	Laramie		_, in the State of
Wyomin	ng. This pe	rmit shall be effec	tive for a period	d of <u>2</u> years
from	the date of	issuance of this per	rmit not to exce	ed five (5) years.
			·	
			Authorized by:	1
	0	<u>.</u>		5
الالا	Diam II	Jaland	Doberi	6, frenden
Wate	Administra er Quality D	ton ivision	Wyoming Dept.	Director of Environmental Quality
		J	<u>-</u> -	
	D.	1. 1.070		
	December	11, 1978		



ED HERSCHLER GOVERNOR

Department of Environmental Quality Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO:

Bill Locke, Southwest District Engineer Evaluator

FROM:

Kate Laudon, Groundwater Engineer Evaluator X & L

DATE:

May 8, 1986

SUBJECT:

Tenneco Minerals Company, Groundwater Contamination, DEQ/WQD Ref. No.

78-702

I have reviewed the following documents submitted by Tenneco in response to your requests for information concerning seepage from their containment pond and tailings pond at the soda ash project in Sweetwater County.

- 1. Tenneco Oil Company Response to Annual Inspection Report 1983 LQD Permit 495.
- Tailings Dam Investigation for Tenneco Oil Company 1980.
- 3. Tenneco Minerals Company Groundwater Monitoring Procedures.
- 4. Tenneco Minerals Company Groundwater Monitoring Report to the DEQ/WQD, November 1, 1985.

These reports essentially conclude that seepage has occurred both from the containment pond toward the north, and from the tailings pond toward the south.

Tenneco has attempted to control seepage from both ponds, and should be commended for their efforts. Data in the Groundwater Monitoring Report indicate that in both cases pumping has not halted seepage out of the ponds, and that several monitor wells continue to deteriorate.

Seepage from the containment pond is controlled by pumping to the tailings pond on a seasonal basis when the ponds are not frozen. TDS values for containment pond wells show positive seasonal responses to pumping. The overall trend for the wells however shows an increasing concentration with time. TDS concentrations in well 13 completed on the edge of Meadow Spring Wash approximately 3/4 miles north of the containment pond have increased from approximately 2,500 mg/l in 1982 to 5,500 mg/l in 1985. Meadow Spring Wash is tributary to the Blacks Fork River, so that groundwater seepage could potentially impact surface water as well.

In the case of the tailings pond, the 1980 Tailings Dam Investigation predicted that seepage would occur through a highly fractured zone of the bedrock labelled Unit 3. Test borings completed along the line of the cutoff trench located south and west of the tailings pond encountered unit 3 between elevations 6,359 and 6,360.

Well completion information included in the groundwater monitoring report shows that wells 2 and 3 which have the highest concentration of seepage water are completed 50 to 65 feet below the elevation of unit 3. These wells show that seepage extends into a lower zone of the aquifer. More extensive seepage associated with the highly fractured unit 3 may occur near the surface. There are no monitor wells completed in this shallow zone.

Seepage has been detected in monitor well 1 located on the edge of Chicken Draw 1 mile south of the tailings pond outside Tenneco's property. Chicken Draw is tributary to the Black's Fork so that seepage could get to surface water this way also.

In their February 26, 1986 letter to you, Tenneco contends that their pumpback system and interceptor trench have been effective in bringing seepage from the tailings pond under control. The fact that water quality in wells 2 and 3 has continued to deteriorate indicates that seepage water continues to bypass the trench and pumpback system. It is unlikely that the trench is effective in controlling seepage underneath it to the depth at which the wells are completed.

Recommendations:

Tenneco must expand their groundwater monitoring system to fully define the extent of contamination.

- 1. Additional monitor wells should be constructed north of the containment reservoir and south of the tailings pond to fully document the extent of groundwater contamination both in the shallow fractured zone, and in the deeper aquifer.
- 2. An evaluation of the impacts of the seepage to surface water should be made.
- 3. A permit to construct additional monitor wells shall be obtained from the Water Quality Division (WQD). Wells shall be constructed to the standards of Chapter XI part G. WQD Rules and Regulations.
- 4. Additional monitoring data collected in the 4th quarter 1985 and the first quarter 1986 shall be submitted to the Division.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY DIVISION PERMIT TO CONSTRUCT

mailed to L. 3/13/29

/x/ New		70	7000
/// Renewal	·	Permit No	-702R
TENNECO OIL COMPANY	(RUN-OFF CONTA	INMENT POND)	·
	(Name of Faci	.lity)	
This permit h	nereby authori	zes the appl	icant:
TENNECO OIL CO	OMPANY		
(Last)	(Firs	st)	(Middle)
2000 WEST LOOP	SOUTH (Stree	et or P.O. Bo	x)
•			
HOUSTON	TEXAS		77027
(City)		(State)	(Zip Code)
to construct, install,	or modify a	CONTAINMENT P	OND
facility located in S	EC. 31 T18N	K109W	
		(Legal Descr	iption)
in the County of SWEE	TWATER	, in the	e State of Wyoming.
This permit shall be	effective for	a period of_	years from
the date of issuance of	of this permi	t not to exce	ed five (5) years.
Authorized by: Administrator Water Quality Division	n	Director Department Quality	of Environmental
MARCH 6, 1979.		× ~ 1	
Date of Issuance			



REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION 933 MAIN STREET, LANDER, WYOMING 82520

PROJECT:

TENNECO OIL COMPANY (RUN-OFF CONTAINMENT POND)

2000 WEST LOOP SOUTH HOUSTON, TEXAS, 77027

ARCHITECT OR ENGINEER:

FRANCIS J. VIEBROCK

WATER QUALITY DIVISION REFERENCE NUMBER:

78-702

REVIEWING ENGINEER:

DOUG CRAIG

50

DATE OF REVIEW:

JANUARY 9, 1979

ACTION:

NOT AUTHORIZED TO CONSTRUCT

COMMENTS:

- 1. We would like to see details on the design of the diversion and collection ditches i.e., side slopes, hydraulic gradient, rip-rap (if necessary), design flow rate, etc.
- 2. I see no mention of sediment loading or sediment volume required. Please justify.
- 3. How does the containment pond relate, if at all, to your (spcc) spill prevention control and counter measures plan? Are oil and trona the only anticipated extraneous substances to occasionally enter the pond?

FRANCIS J. VIEBROCK 1711 HOLLOW HOOK HOUSTON, TEXAS, 77080 Book to J. 79

PERMIT TO CONSTRUCT

/ <u>X</u> /	New			Permit No. 78-70	D3RR	
//	Renewal		_		•	•
//	Modified					
	-	SANITARY STABI	LIZATION P	OND		
		((Name of Fa	acility)	···	
	T	nis permit hereby	∕authorize	es the applicant:		
		TENNECO OIL CO	MPANY			
		(Last)	·	(First)		(Middle)
		2000 WEST LOOP	ROAD			
			. (Street or P.O. Bo	(x)	
		HOUSTON	TEXAS	77027		
		(City)		(County)		(State)
faci	lity locate	d insec31				
			118N	R109W - (Legal Descriptio	n)	
in t	he County o	f <u>sweetwater</u>	TL8N			the State of
		f <u>SWEETWATER</u>			, in	vears
Wyom from	ing. This	f <u>sweetwater</u> permit shall be	effective	<u> </u>	, in	years

[&]quot;The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or opertional requirements."

OWNER: TENNECO OIL PROCESSING & MARKETING

CONTROL DATA BLDG 2000 WEST LOOP SOUTH ROUSTON, TEXAS 77027

REVIEW OF PLANS AND SPECIFICATIONS

ATTN: DAVID R. DELLING

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION 933 MAIN STREET, LANDER, WYOMING 82520

PROJECT:

TENNECO OIL COMPANY

SANITARY, SEC. 31, T.18N., R.109W.

SWEETWATER COUNTY

ARCHITECT OR ENGINEER: FRANCIS J. VIEBROCK, P.E.

1711 HOLLOW HOOK, HOUSTON, TEXAS 77080

WATER QUALITY DIVISION REFERENCE NUMBER: 78-703R

REVIEWING ENGINEER:

0100 DAVID W. HILL

DATE OF REVIEW:

MARCH 14, 1979

ACTION:

NOT AUTHORIZED

COMMENTS:

- 1. Your letter indicated that provisions for depth control and draw-off between 2-5 feet on the cell transfer structures is to be provided as indicated on Drawing No. 000-D-735. I did not find these revisions on Drawing No. 000-D-915 Revision 2.
- 2. What is the size of the ventilation turbine in the lift station? Is it mechanical or gravity ventilation?

DWH/jky



REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION 933 MAIN STREET, LANDER, WYOMING 82520

PROJECT:

TENNECO OIL COMPANY

SANITARY STABILIZATION POND

WATER QUALITY DIVISION REFERENCE NUMBER: 78-703

SEC 31, T18N, R109W SWEETWATER COUNTY

ARCHITECT OR ENGINEER:

FRANCIS J. VIEBROCK, P.E. -

TENNECO OIL

PROCESSING & MARKETING

CONTROL DATA BLDG

2000 WEST LOOP SOUTH

HOUSTON, TEXAS 77027 ATTN: DAVID R. DELLING

REVIEWING ENGINEER:

DAVID W. HILL

DATE OF REVIEW:

JANUARY 2, 1979.

ACTION:

NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

GENERAL

1. Complete plans and specifications are needed for the sanitary collection system including the lift station.

STABILIZATION PONDS....

- 2. How will the influent line enter the lagoon system?
- 3. It is recommended that the transfer structures between cells include provisions for depth control and drawoffs between 2-5 feet. A lagoon depth of less than 2 feet induces odors:

/_/ New			Pe	ermit No.	78-704RR
/X/ Renewal			•		
/_/ Modified				• •	
		DA ASH PROJECT TA Name of Facility		<u> </u>	
This permit he	reby authorizes the	applicant (name a	and address)	:	
	Tenne	co Oil Company			
	2000 1	West Loop Road	•		
		ol Data Building on, TX 77027		· .	
to construct,	install, or modify a	tailings pond			•
	facilit	y according to th	he procedure	s and conc	litions of the
application No	- <u>78-704RR</u> . T	he facility is l	ocated in _	· · ·	
	Sec.	1, T. 17N, R. 110	. WC		
)			in the Count	y of Swee	twater ,
in the State o	f Wyoming. This per	mit shall be effe	ective for a	period of	one
yearsx (five (5) years maximum) fro	m the date of is	suance of th	is permit.	
evaluated and and design sta	f this permit provid determined that th ndards. The complia	e application med nce with constru	ets minimum ction standa	applicable rds and t	e construction the operation

and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and

Soda Ash Project

PERMIT TO CONSTRUCT

/ <u>X</u> _/	New		Permit No	78-704RR	
<u>`</u> /	Renewaī				
<u> </u>	Modified :				
′/	Mourifed				· -
	tu.	EXMERCO SODA ASH	PROJECT TAILINGS	י ארט פי	
	1.		of Facility)	, TOND	
	This	permit hereby aut	horizes the applica	nt·	•
		permit merally and	1205 0110 4pp 1 100.		
		Tenneco Oil	Company		
		(Last)	(First)	(Middle)
				= .	
		2000 West Loop	Road, Control D		
	• •		(Street or P.O.	. DUX)	
		Houston	Texas		77027
		(City)	(County)		(State)
faci	lity located	in Sec. 1, T.	17N, R. 110W (Legal Descrip	otion)	
			(2094) 00001.1	, , , , , , , , , , , , , , , , , , , ,	
in t	he County of _	SWEETWATER		, in	the State of
Wyom	ing. This per	rmit shall be effe	ctive for a period c	of TWO	years
from	the date of	issuance of this n	ermit not to exceed	five (5) yea	years rs. PROFESS/ PROFESS/ NO. 285
17081	2110 0000	μ	2, 5 (100 50 2,0200	(5) yeu	E. STE.
		anness/			. ОИ (0) NO.
AUTH	ORIZED BY:	PROFESSION	MAT.		285
	\cap	25		0	STATE OF WYO
).00im.	(DE WILLIAM E. GARL	milloner	Sundin	OF WYC
	Adminis	strative P.E. 1479		Director	
	Water Qualit	by Division OF WY	wyolithy bep	. OF ENVIROR	nmental Qualit
	June 28,	1979			
	Date of			·	

Back 2 M + 2 L 7-12-19

[&]quot;The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or opertional requirements."

REVIEW OF PLANS AND SPECIFICATIONS WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION 933 MAIN STREET.

LANDER, WYOMING, 82520.

(307) 332-3144

PROJECT:

TAILINGS POND

SEC. 1, T.17N., R.110 W. SWEETWATER COUNTY

*MEETAKKOKK

TENNECO OIL COMPANY

ENGINEER:

FRANCIS J. VIEBROCK, P.E.

OWNER: -

2000 WEST LOOP SOUTH - CONTROL DATA BLDG.

1711 HOLLOW HOOK

HOUSTON, TEXAS, 77027

HOUSTON, TEXAS 77080.

ATTN: DAVID R. DELLING, GEN. MAN., SODA ASH PROJECT

OWNER:

WATER QUALITY DIVISION REFERENCE NUMBER:

78-704

REVIEWING ENGINEER:

DAVID W. HILL ...

DATE OF REVIEW:

JANUARY 16, 1979

ACTION:

NOT AUTHORIZED.

COMMENTS:

- 1. Complete details are needed on all aspects of the proposed monitoring well program. (i.e. - exact location, depth, size, construction, parameters, frequency, contingency plans if problems arise, etc.)
- 2. Transfer pipe, re-cycle pipe, discharging structure details are needed.

mailed to S. 2/21/29

/ <u>X</u> /	New		Permit No	
//	Renewal			
//	Modified		•	
	ČROŠ	SS C CAMPGROUND WASTEWAT (Name of F		
	This	permit hereby authorize	es the applicant:	
		Cross C Campground, Ind	c., Attention: Charle (First)	es Irigary (Middle)
		1	(Street or P.O. Box)	·
		Buffalo (City)	Johnson (County)	Wyoming 82834 (State)
to≅©	onstruct, ins	tall, or modify a waste	vater treatment	
faci	lity located	in Section 5, T.50N., R.	.82W. (Legal Description)	
in t	he County of	Johnson		_, in the State of
Wyom	ing. This pe	rmit shall be effective	for a period oftwo	(2) years
cc:	R. G. Stucke Attention: J	issuance of this permit ert & Associates John Wesnitzer, 55 Wester		
AUTH	ORIZED BY:			
<u>(1)</u>		Strator ty Division		Sundin ector Environmental Quality
	February Date of			

[&]quot;The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or opertional requirements."

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
30 East Grinnell
Sheridan, Wyoming 82801

PROJECT:

Cross C Campground Wastewater Treatment Facility

John B. Wesnitzer

ARCHITECT OR ENGINEER:

R. G. Stuckert & Associates

55 Western Avenue Buffalo, WY 82834

WATER QUALITY DIVISION REFERENCE NUMBER: 78-705

REVIEWING ENGINEER:

Dan Kim, Tom Mueller

DATE OF REVIEW:

1/23/79

ACTION:

NOT AUTHORIZED FOR CONSTRUCTION (See Comments)

COMMENTS:

- 1. The Water Quality Division will require considerable additional information on the effluent disposal from this system, i.e., irrigation areas and the rubble field. Please provide the following, and any additional information you feel will aid in our review:
 - Location and ownership of fields
 - -- Effluent application rates (inches/week)
 - Soil profiles of rubble field and irrigated areas
 - Runoff patterns from rubble field and irrigated areas and runoff containment measures to be taken
 - Distance from any water supply wells to the effluent disposal areas
 - Crops to be raised on the irrigated areas
 - Method of effluent application (flood, spray, etc.)
- Please provide some manufacturer's data on the aeration grids for the first lagoon, particularly regarding orifice size and design, and oxygen transfer efficiency expected.
- 3. Bentonite application rate and application specifications are needed.
- 4. Are there provisions to divert runoff around the lagoons? Are the lagoons out of the 100-year flood zone?

Review of Plans and Specifications Cross C Campground Wastewater Treatment Facility January 23, 1979 Page 2

- 5. As noted in the lagoon design information, some campers may have toxic chemicals or heavy metals in their stored sewage. Is there a separate dump station? Please address the effect these materials might have on crops, the treatment lagoons, and local groundwater.
- 6. The lagoon embankment should be seeded.
- 7. Where will sewage solids from the bar screen be disposed of?
- 8. Is the invert elevation of the proposed manhole known at this time?
- 9. Please provide the following details of the chlorination system:
 - Control system
 - Source of mixing water
 - -- Application point
 - Construction materials

If calcium hypochlorite is to be used this office recommends the use of two solution tanks, one for mixing and calcium carbonate settling, the other for actual solution feeding.

10. A 24-hour clock for the main blower is recommended.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY DIVISION . PERMIT TO CONSTRUCT

mailed to 1 2-1-79

\sqrt{x} New			
<u>/</u> / Rene	wal	Permit No.	78-706R
<u>/</u> / Modi	fied		
	DUBOIS WATER W	ELLS	•
	(Name	of Facility)	<u> </u>
	This permit hereby	authorizes the a	pplicant:
	•	÷	
	TOWN OF DUBOIS		
	(Last)	(First)	(Middle)
	DUBOIS TOWN HAI	ĹL	
		(Street or P.O.	Box)
	DUBOIS	WYOMING	82513
	(City)	(State)	(Zip Code)
to const	ruct, install, or m	odify a WELL	
facility	located in SEC. 2	T41N R1	
		(Legal De	scription)
in the C	ounty of FREMONT	, in	the State of Wyoming.
This pen	mit shall be effect	ive for a period	of 2 years from
the date	of issuance of thi	s permit not to e	xceed five (5) years.
Authoriz	ed by:	Dober	ob & Lundin
Administ Water Qu	rator (\ ality Division	Di¥ector Departme Quality	nt of Environmental
JANUARY 2	29, 1979.		

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION 933 MAIN STREET. LANDER, WYOMING, 82520.

(307) 332-3144

PROJECT:

DUBOES WATER WELLS

ENGINEER:

ELMO G. PETERSON, WIND RIVER ENGINEERS,

2333 ROSE LANE

RIVERTON, WYO. 82501

OWNER:

TOWN OF DUBOIS

TOWN HALL

DUBOIS, WYOMING 82513

WATER QUALITY DIVISION REFERENCE NUMBER:

REVIEWING ENGINEER:

- ROY E. PRIOR, P.E. Soyli nin RICK ENGELMANN

DATE OF REVIEW:

DECEMBER 22, 1978

ACTION:

NOT AUTHORIZED.

COMMENTS:

WELL CONSTRUCTION

- The well casing must terminate at least 12 inches above the pumphose floor and at least 18 inches above final ground surface. If the area is subject to flooding, provisions must be made to provide protection. Will the site be subject to flooding?
- The proposed well casings are lighter than AWWA Standards. See AWWA A100-66, Section A1-5.
- It should be mentioned (p.02580-3) that mud cuttings and drilling mud shall not be placed in streams or surface drainages.
- The well abandonment section (02580-5) does not meet the criteria of Section 3.2.3.20 "Well Abandonment" in the '68 Ten State Standards.
- 5. Microbiological testing of the disinfected well must be specified.
- The discharge piping must include a pressure gauge and a smooth-nosed sampling tap.
- The casing will need a vent, see 10 State Standards.
- Will there be an air release-vacuum relief valve and a pump surge control valve? If not, why not?

DUBOIS WATER WELLS ENGINEER - ELMO G. PETERSON -

WIND RIVER ENGINEERS OWNER: TOWN OF DUBOIS REF NUMBER: 78-706

REV. ENGINEERS - RICK ENGELMANN - ROY E. PRIOR, P.E.

DECEMBER 22, 1978

CHLORINATORS

- 1. Does the town have respirators and leak detection equipment (e.g. ammonium hydroxide) readily available? See '68 Ten State Standards, 5.4.
- 2. It is not division practice to permit chlorine gas to pass beyond the chlorine the ejectors should be in the chlorine room.
- 3. 30 minutes contact time is considered to be the minimum contact time will the proposed system be able to meet this?

GENERAL:

- 1. The permit applications were not signed. We need only one (1) for our records.
- 2. After the well has been drilled, a chemical analysis of the water must be performed. Submit a copy to this office.
- 3. Whatever pump is purchased by the town, the pump and installation must be approved by this office. Once installed the well will have to be disinfected and microbiologically tested again. Provide pump design curves, conditions of the system it will pump into and how it will be controlled.

We are treating the submission as a permit application to construct everything but the pump installation. —

4. Due to the number and types of comments, please do not consider this to be a final review.

mailed 1/15/19

PERMIT TO CONSTRUCT

/ <u>x</u> /	New			
//	Renewal		Permit No	78-707
//	Modified			
		-		
			reet Water Line	Ext.
		(Name	of Facility)	
	This	permit hereby auth	orizes the appli	icant:
		Roys	Lyle	
		(Last)	(First)	(Middle)
		Box 754		
			(Street or P	.O. Box)
	٠	Saratoga	. Carbon	Wyoming 82331
		(City)	(County)	(State)
	ty located	in Section 14		
in the	County of _	Carbon		, in the State of
Wyomin	g. This per	rmit shall be effec	ctive for a peri	od of <u>2</u> years
from t	he date of	issuance of this pe	ermit not to exc	eed five (5) years.
1		•		
			Authorized by	:
	<u>Q</u> Administrat r Quality D		Wyoming Dept.	Director of Environmental Quality
11400				
	December	18, 1978		
		of Issuance		

maled 12/2/2/

PERMIT TO CONSTRUCT

3 Y			
New			70 700
Renewal		Permit No	/8-708
Modified			•
	Pocky Mt	n. Properties	•
		f Facility)	
m :	hamahar author	rizes the appl	icant:
This permit	nereby author	rises rive abbi	TCuit.
·	y Mountain Bu		(27, 137.)
(L	est)	(First)	(Middle)
770	West Collins) O P)
		(Street or I	?.U. box)
Cas		Natrona	Wyoming 82601 (State)
	(City)	(County)	(ocace)
onstruct, install, c	r modify a	Subsurface Di	sposal
			<u> </u>
lity located in S	ction 32, 13	<u>2N, R/9W</u> (Legal Descrip	otion)
	!- 		, in the State of
he County of	latrona		, in the state of
ing. This permit sh	all be effect	ive for a per	iod of <u>2</u> years
the date of issuance	e of this per	mit not to exc	ceed five (5) years.
,			
			·
		Authorized b	
		Authorized b	
\sim \sim		\mathcal{L}	<i>></i> / .
Diren & (In	lal	Dobert	- 6. Gunden
Administrator A	- 	Wyomine Dent	Director of Environmental Ouali
Administrator A	lad	Lobert Wyoming Dept	

December 11, 1978

cc: Ross Turner P.E.
Box 808
Afton, Wyo. 83110

m to 3

PERMIT TO CONSTRUCT

/ <u>X</u> /	New		Per	mit No. 78-70)9R .	·	_
[-]	Renewa T	1	1				
/_/	Modified	· .	-			•	
			•		•		
		Alpine Commur (Na	<u>nity Center</u> me of Facil	ity)			
	This	permit hereby a	uthorizes t	he applicant:		•	
						- 	
		Alpine Fire (Last)	brigade	(First)		(Middle)	
	_	Box 3	7.				<u>-</u> .
			(Str	eet or P.O. Bo	ox)		
	- -	Alpine, Wyon (City)	ning 83128	(County)		(State)	
to c	construct, insta	ill, or modify	a septi	c tank-leach i	ield		
faci	lity located in	Sec. 2	29, T. 37 N. (Le	<u>, R. 118 W. </u> gal Descriptio	on)		
	he County of			•		the State of	
Wyom	ing. This perm	nit shall be ef	fective for	a period of _	2	years	
from	the date of is	suance of this	permit not	to exceed fiv	e (5) yea	rs. RED PROFESSIO	WAL
AUTH	ORIZED BY:				•	ROBS 285	30
رب	Administ Water Quality	- -	Z	Louing Dent	Sund Director	nmental Qualit	
	May 25, 1			Johnny Depo.	57 ENVIIO	mencar yuarre	, y
	Date of Is	suance					

[&]quot;The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or opertional requirements."

PR

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION 933 MAIN STREET, LANDER, WYOMING 82520

PROJECT:

ALPINE FIRE BRIGADE

P.O. BOX 3

ALPINE, WYO. 83128

ARCHITECT OR ENGINEER:

(UNKNOWN)

OWNER -

(UNKOWN)

WATER QUALITY DIVISION REFERENCE NUMBER:

78-709

REVIEWING ENGINEER:

DOUG CRAIG

DATE OF REVIEW:

ACTION:

MARCH 15, 1979

NOT AUTHORIZED

COMMENTS:

1. To date I have not received the signed (P.E.) copies of the Alpine Brigade Facility design. Proceed at your own time schedule. This letter is merely to inform you of the project status and adjust our files accordingly.

DC/jky

mailed 3/20/19

PERMIT TO CONSTRUCT

/ <u>x</u> /	New		Permit No	78-710	
//	Renewal				
//	Modified				
	This	Westward Vil (Name of	lage Mobile Home of Facility) orizes the applica		_
		Hanna Ventures (Last)	(First	t)	(Middle)
		P. 0. Box 803	(Street or P.0	O. Box)	·
		Hanna (City)	Carbon (County)	Wy	oming 82327 (State)
to c	onstruct, ins	tall, or modify a \overline{W}	ater Distribution	& Sewage Coll	ection
	The Arterior and the second	in <u>Section 19, T22</u>			
in t	he County of	Carbon	1	, in	the State of
Wyom	ing. This pe	rmit shall be effec	tive for a period	of 2	years
from	the date of	issuance of this pe	rmit not to exceed	d five (5) yea	rs.
AUTH	ORIZED BY:			•	
W		strator ty Division	Wyoming De	Director ept. of Enviro	nmental Quality

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or opertional requirements."

February 28, 1979
Date of Issuance



Department of Environmental Quality Water Quality Division

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

February 13, 1979

Mr. Joe Kub Project Engineer BRW/Noblitt 1709 Carey Avenue Cheyenne, Wyoming 82001

> Re: Westward Village, Hanna Mobile Home Park Water and Sewer Hookups

78-710

Dear Joe:

In connection with the above referenced project and not hearing from you since receiving the plans on January 13, 1979 and our telephone conversation of January 14, 1979 concerning the possible overloading of the Hanna aerated lagoon by hooking up the Mobile Home Park, I am prompted to write this letter to you.

Please indicate to us whether the project is still active and if so, what steps have been taken to solve the prime problem or solution of possibly hooking on to the new lagoon further upstream with more capacity.

Will wait to hear from you in this regard.

Yours truly,

Frank R. Harman, M.S., P.E.

Environmental Engineer

FRH/nc

Book 11,19

PERMIT TO CONSTRUCT

/ <u>X</u> /	New		Permit No	78-711RI	R	
//	Renewal					
//	Modified					
		,	•			
	_	<u>Western Hills Booster I</u> (Name of F				
	Th		• .			
	() (is permit hereby authoriz	es the applicant:		•	
	·	Northwest Associates			· · · · · · · · · · · · · · · · · · ·	
•		(Last)	(First)		(Midd	le)
		1124 Dunn Avenue	•			
		·	(Street or P.O. B	ox)		
٠			*.			
		Cheyenne, (City)	Laramie,		Wyoming /s+	
	i	(CILY)	(County)		(57)	ate)
to c	onstruct. i	nstall, or modify awate	er system booster	pump si	tation	
		d in Sec. 13, T.14N, R67				
1001	iity iocate	u III	(Legal Description	on)		
in tl	he County o	fLaramie		,	in the Sta	ate of
Wyom	ing. This	permit shall be effective	for a period of	two ((2)	years
		f issuance of this permit	-			
11011	the date o	· 133uance of ents permit	not to exceed in	ve (3) (years.	680 E22/0
	-	•				
AUTH(ORIZED BY:			,	REG.	1 NO. 5 285 \$
	,			- /	1 to 1	
ر في ا	Olean	K Vala Q	Lobero 6.	Lun	den ?	E OF WYOU'S
	Admir Water Dua	nistrator lity Division	Wyoming Dept.	Directo	or	
	na oct qua.		nyoming beht.	UI LIIV	i i Ommerita i	quarity
	May 5	, 1979				
	Date of	Issuance				

[&]quot;The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or opertional requirements."

Market Dark

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY DIVISION State Office Building Cheyenne, Wyoming 82002

PROJECT: Western Hills Booster Pump Station, Cheyenne, WY, Laramie County

ARCHITECT OR ENGINEER: Fred Sielbach, CSSA 1780 Westland Road, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 78-711R

REVIEWING ENGINEER: Robert H. Pinther, P.E., M.S., Jake Strohman, P.E.

DATE OF REVIEW: 3/30/79

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Revise item #9 <u>Water Line Crossing</u> on page ss-6 of the specifications to read as follows:

Normal Conditions

Water mains crossing sewers and other wastewater drains shall be laid above the sewers to provide a separation of at least 24 inches between the bottom of the water main and the top of the sewer, whenever possible.

<u>Unusual Conditions</u> - When local conditions prevent a vertical separation as described above, the following construction shall be used:

- Sewers passing over or under water mains should be constructed of mechanical joint cast iron pipe.
- Water mains passing under sewers shall, in addition, be protected by providing:
 - a. A vertical separation of at least 18 inches between the bottom of the sewer and the top of the water main;
 - b. Adequate structural support for the sewers to prevent excessive deflection of the joints and settling on and breaking the water mains;
 - c. that the length of water pipe be centered at the point of crossing so that the joints will be equidistant as far as possible from the sewer.

Trialed 2-6-79

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY DIVISION State Office Building Cheyenne, Wyoming 82002

PROJECT: Western Hills Booster Pump Station, Cheyenne, WY, Laramie County

ARCHITECT OR ENGINEER: Fred A. Sielbach, CSSA, 1780 Westland Rd.,

Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 78-711

REVIEWING ENGINEER: Robert H. Pinther, P.E., M.S.; Jake Strohman, P.E.

DATE OF REVIEW: 1/10/79

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Provide an all-weather access road to the pump station.

- Submit the data and the design calculations on which the required number of pumps and the pump capacities were determined.
- 3. The pumps shall be sized so that when any one pump is taken out of service, the remaining pumps will be capable of carrying the peak demand.
- 4. The pump station shall be so located that the pump intake will hold at a suction pressure of not less than 20 psi during normal operation.
- 5. Provide adequate space in the pump station for the installation of additional units, if needed.
- 6. The pump station floor shall slope at least three inches in every 10 feet towards the drain.
- 7. Provide an automatic signaling device which will report when the station is out of service.
- 8. Provide for automatic shut down of the pumps when the pressure in the suction lines drops to 10 psi.
- Provide adequate protection against freezing in the pump station. NOTE: It appears that the 4000 watt heater specified will not be large enough. Are the steel doors insulated and can the door louvers be closed?

- 10. Each pump shall have a positive-acting check valve on the discharge side between the pump and the shut off valve.
- 11. Provide a standard gauge on the discharge line from each pump.
- 12. Provide a compound gauge on the suction line for each pump.
- 13. If power failure would result in cessation of minimum essential service, power supply shall be provided from at least two independent sources or a standby or an auxillary source shall be provided.
- 14. Submit a letter from the Cheyenne Water Department indicating the availability of an adequate supply of potable water to serve the proposed booster station.
- 15. The pump station floor drain shall not be connected directly to the sanitary sewer nor any storm sewer. The station shall be drained to the surface of the ground down grade from the pump station or to an absorption pit underground, preferably, at least 30 feet from the buried water suction line to the station.

THIS IS NOT A FINAL REVIEW



REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION 933 MAIN STREET, LANDER, WYOMING 82520

PROJECT:

TABLE ROCK PROCESSING PLANT

SEC23, TI9N R98W

SWEETWATER COUNTY

ARCHITECT OR ENGINEER:

R.M. SCOTT, P.E.

COLORADO INTERSTATE GAS CO.

BOX 1087, COLORADO SPRINGS,

COLORADO 86944

WATER QUALITY DIVISION REFERENCE NUMBER:

REVIEWING ENGINEER:

DÁVID W. HILL

DATE OF REVIEW:

JANUARY 3, 1979

ACTION:

NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

GENERAL

1. All plans and specifications should be signed or sealed by an Engineer registered in the State of Wyoming.

- 2. Three copies of all plans and specifications are needed. One copy shall be returned to you upon our approval.
- 3. Enclosed please find the "Guidelines for Wastewater Pond Construction Permit Applications". These guidelines should be used and all applicable information provided to this department. A "Permit to Construct" cannot be issued until the information required by these guidelines are provided.

Enclosures: "Guidelines for WW Pond Construction Permit Applications".

WATER QUALITY DIVISION PERMIT TO CONSTRUCT

WIONING DELINATION OF BRITANSHIE

mailed to

_			VI 7-3) - / (
/X New	,			
// Renev	wal	Permit No	0. 78-713	
/7 Modit	fied			
	c x c u			
	CRESCENT H LOI (Name	OGE e of Facility)		
	This permit hereby	y authorizes the	applicant:	
	ERICKSON.	ROBERT	·	•
	(Last)	(First)	(Middle)	
	P.O. BOX 608		~	
	· · · · · · · · · · · · · · · · · · ·	(Street or P.0	D.: Box)	
	WILSON	WYO.	83014	
	(City)	(State)	(Zip Code	∍)
to const	ruct, install, or m	modify a <u>SEPTIC TA</u>	NK-LEACH FIELD	
	flocated in LISEC. 33	3, T41N R117W	Description)	
in the Co	ounty of or TETON	-	in the State of Wyo	oming.
This per	mit shall be effec	tive for a period	d of 2 years f	from
the date	of issuance of the	is permit not to	exceed five (5) ye	ears.
Authorize Olio Administr Water Qua	m f. Jala D	Directo Departr Quality	ment of Environment	

DECEMBER 27, 1978
Date of Issuance

C.C. PETER JORGENSON, P.E. P.O. BOX 1142

P.O. BOX 1142
JACKSON, WYO. 83001
ATTN: STAN ZAIST

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY DIVISION PERMIT TO CONSTRUCT

mailed to L. 1-3-79

½√ New	
/// Renewal	Permit No. 78-714
/_/ Modified	
CANYON TERRACE SUBDIVISION PACIFIC POWER & LIGHT	(WATER SYSTEM)
(Name of Fa	cility)
This permit hereby autho	rizes the applicant:
PACIFIC POWER & LIGHT COMPA	TNA
(Last) (Fi	rst) (Middle)
P.O. BOX 1200	
(Str	eet or P.O. Box)
ROCK SPRINGS, WYO.	82901
(City)	(State) (Zip Code)
to construct, install, or modify	a WATER DISTRIBUTION
facility located in SEC. 22, T18N	R107W
	(Legal Description)
in the County of SWEETWATER,	, in the State of Wyoming.
This permit shall be effective for	r a period of $\frac{2}{}$ years from
the date of issuance of this perm	it not to exceed five (5) years.
Authorized by: Olean J. Colo D Administrator Water Quality Division	Director Department of Environmental Quality
DECEMBER 27, 1978	
Date of Issuance	
ATTN: JAY HICKS C.C. PACIFIC POWER & LIGHT CO. 920 S.W. SIXTH AVE. PORTLAND, OREGON 97204 ATTN: CHESTER E. ELSTON, P.E. SR. WATE	ER SYSTEMS ENGINEER

c.c. NORTHWEST HOMES, INC. P.O. BOX 353 GREEN RIVER, WYO. 82935

mailed 3/14/19

,			K HV
/x/ New		Permit No. 78-71	5
/ <u>_</u> / Renewal		\ <u>\</u>	
/ <u>_</u> / Modified			:
	·		
	Elitable and Company	ndustrial Park, Lot 2) of Facility)	
Thi	s permit hereby autho	-	
1 1 1	5 permit hereby autilic	in the appropriet.	
	Landmark Construct		
	(Last)	(First)	(Middle)
	Drawer 5		
		(Street or P.O. Box)	,
	Douglas (City)	Converse (County)	Wyoming 82633 (State)
	(C12y)	(country)	(Soute)
to construct, in	stall or modify a	Small Wastewater Facili	ty(Commercial)
facility located		, T32N, R71W	The second secon
·		(Legal.Description)	
		•,	
in the County of	Converse		, in the State of
Wyoming. This p	ermit shall be effect	ive for a period of	2 years
from the date of	issuance of this per	mit not to exceed five	(5) years.
AUTHORIZED BY:			· · · · · · · · · · · · · · · · · · ·
AOTHORIZED DI.			0
	$O(\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	A June 8	
Admin	istrator	Di	rector
	ity Division		f Environmental Qualit

February 8, 1979 Date of Issuance

"The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or opertional requirements."

Mailed 3/14/29

/ <u>x</u> /	New	Permit No	78-715	K 17 P
//	Renewal .			
//	Modified			
		ustrial Park, Lot 5	<u>/. </u>	·
	This permit hereby aut	thorizes the applica	nt:	
	Landmark Constru (Last)	uction (First)	(Middle)
-	Drawer 5	(Street or P.O	. Box)	· · · · · · · · · · · · · · · · · · ·
	Douglas (City)	Converse (County)	Wyc	oming 82633 (State)
to c	onstruct, install, or modify a	Small Waste Facil	ity (Comme	ercial)
faci	lity located in <u>Section 17</u> ,	, T32N, R71W (Legal Descri	ption)	
in t	he County ofConverse		,	in the State of
Wyom	ing. This permit shall be effe	ctive for a period	of2	years
	the date of issuance of this p	ermit not to exceed	five (5)	years.
<u>Ce</u>	ORIZED BY: Administrator Water Quality Division	Lober Wyoming Dep	Directot. of Env	Sunding cor vironmental Quality

February 8, 1979
Date of Issuance

[&]quot;The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or opertional requirements."

/ <u>X</u> /	New			Permit No	78-718RI	3	
//	Renewal			·	1		/
/ /	Modifie	d '			:		
<i>,</i>	•				,		
	4.	OREGON TRAIL	MOBILE HOME 1				,
		. '	(Name of	Facility)			
	•	This permit	hereby author	izes the applic	ant:		
		BRASEL & SIM	IS CONSTRUCTION	Ŋ			
-		(La P.O. BOX 490	st)	(Firs	t)	(Midd	ie)
		1.0. DOX 430	,				
		1		(Street or P.	0. Box)		
•	•	LANDER,	WYOMING	82.	520	·	,
	•	(Ci	ty)	(County)		(Sta	ate)
÷0.00	onstruct	inctall or	modify a WATI	ER SUPPLY, WATE	R DISTRIBUT	ION, SEWAG	E COLLECTIO
AND	SEWAGE .	LIFT STATION		ER SUPPLY, WATER	.92W	ION, SEWAG	E COLLECTION
AND	SEWAGE .	LIFT STATION			.92W	ION, SEWAG	E COLLECTION
AND facil	SEWAGE lity loca	LIFT STATION	SEC. 1	o, T.29N, R	.92W iption)	ion, SEWAG	· · · · · · · · · · · · · · · · · · ·
facil	SEWAGE lity loca	ted in	SEC. 10	o, T.29N, R	.92W iption)		· · · · · · · · · · · · · · · · · · ·
in the Wyomi from DOES	ne County ing. Thi the date	of of issuance	SEC. 10 FREMONT The effective of this perminal for the WAY	O, T.29N, R (Legal Descr	.92W iption) of five (5) K: THE TANK	in the Sta 2 years. TH WILL BE A	te of years IS PERMIT PPROVED
in the Wyomi from DOES UNDER	ne County ing. Thi the date	of s permit sha of issuance FINAL APPROV	SEC. 10 FREMONT The effective of this perminal for the WAY	(Legal Descr e for a period t not to exceed TER STORAGE TAN	.92W iption) of five (5) K: THE TANK	in the Sta 2 Years TH WILL BE A RAWINGS	te of years IS PERMIT PPROVED PROFESSION
in the Wyomi from DOES UNDER	ne County ing. Thi the date NOT GIVE A SEPAR	of of s permit sha of issuance FINAL APPROV ATE PERMIT ON :	SEC. 10 FREMONT The effective of this perminal for the WAY	(Legal Descr e for a period t not to exceed TER STORAGE TAN	iption) of d five (5) K: THE TANK AND SHOP DI	in the Stars. TH WILL BE A RAWINGS.	te of years IS PERMIT PPROVED ROFESSIONER R E. SUITE NO. 285
in the Wyomi from DOES UNDER	ne County ing. Thi the date NOT GIVE A SEPAR	of s permit sha of issuance FINAL APPROV	SEC. 10 FREMONT Il be effective of this permitation of the WAY RECEIPT OF AN	(Legal Describer of the form a period to exceed the storage Tank CCEPTABLE PLANS	.92W iption) of five (5) K: THE TANK	in the Sta 2 years TH WILL BE A RAWINGS.	te of years IS PERMIT PPROVED PROFESSION R NO. 285

[&]quot;The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or opertional requirements."

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION 933 MAIN STREET, LANDER, WYOMING 82520

PROJECT:

OREGON TRAIL MOBILE HOME PARK

ARCHITECT OR ENGINEER: DON ADAMS, BRASEL & SIMS CONSTRUCTION, P.O. BOX 490,

LANDER, WYO. 82520. ATTN: JEFF HERMANSKY

WATER OUALITY DIVISION REFERENCE NUMBER: 78-718R

REVIEWING ENGINEER: RICK ENGELMANN

DATE OF REVIEW:APRIL 26, 1979

ACTION:

NOT AUTHORIZED.

COMMENTS:

WELL:

We still need the following:

- a. Specified procedures for testing plumbness and alignment. See AWWA A100, Section Al-9.
- b. A specification for the well casing (thickness, diameter, ASTM or API spec.). See '68 Ten States, Section 3.2.3.2 ('76 ed. 3.2.5.3).
- c. Specification for grouting where, to what depth, spec. for grouting material (type of cement and mixture). See '68 Ten States Sec. 3.2.3.11 ('76 ed. 3.2.5.7).
- d. Some explanation of the geology of the site. A well cross section such as the enclosed examples would help in explaining where grouting, screening, casing, etc. are located.
- e. If the well will be pulling from an unconsolidated formation, it will have to be finished. A spec. such as the enclosed may cover this.

STORAGE TANK:

It appears that the proposed tank will meet our standards. However, we will need to see the shop drawings. Since you will not have these til the job is authorized, we will issue a separate permit for the water and sewer system followed by a permit (on review of the shop drawings) of the tank.

OREGON TRAIL MOBILE HOME PARK

REF: 78-718R RICK ENGELMANN APRIL 26, 1979 NOT AUTHORIZED.

- 2 -

PUMP HOUSE:

- 1. How will both pumps be kicked on during fire demand? Pressure sensors, or what?
- 2. Will the well head be enclosed by the pump house structure?
- 3. We still need the following:
 - a. Pipe sizes and specifications for pipe material.
 - b. Spec.s for valves and check valves.
 - c. A check valve in the well discharge line.
 - d. Spec. for the hypochlorinator metering pump either a description, or a manufacturer and model or "approved equal."
 - e. Spec. for the chlorine solution tank type of tank, size, material.

SEWERAGE:

- 1. "Balling" (3.2.7) is not designed to check deflection.
- 2. ∠We need: add:
 - a. AA definition in specied. 22.83 of a sewer-line section.
 - b. bCorrection of "tamping "sto "tamping "oin 302362.6

WATER DIST. SYSTEM

- 1. You are specifying a minimum of 2 sq. feet of thrust blocking in 1.5.3. What is this based on? Have any penetration tests been done in the soil for determining its bearing capacity? What is the type of soil and subsoil at the site.
- 2. How do the service saddles work? Are they gasketed inserts into the pipe line?

SEWAGE LIFT STATION

1) Are there to be guides running up the wet well for lifting of the screening basket? Am I interpreting the plans correctly?



REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION 933 MAIN STREET. LANDER, WYOMING 82520

OREGON TRAIL MOBILE HOME PARK From and

OWNER: BRASEL & SIMS CONSTRUCTION

ARCHITECT OR ENGINEER:

DON ADAMS

BRASEL & SIMS CONSTRUCTION CO.

P.O. BOX 490

LANDER, WYO. 82520

WATER QUALITY DIVISION REFERENCE NUMBER:

78-718

REVIEWING ENGINEER:

RICK ENGELMANN

DATE OF REVIEW:

JANUARY 5, 1978

ACTION:

NOT AUTHORIZED.

COMMENTS:

- The well must be constructed according to those things outlined in 68 Ten State Standards, Part 3.
- 2) On completion of the well, this office will need a chemical analysis of the water.
- 3) The following must be covered in the specis: -:
 - a. Well construction, well materials, well finishing and disinfection, etc.
 - b. More complete specifications on the well pump, pump controls, and well discharge piping. See Ten State Section 6.2.

Storage Tank

Specifications and drawings must be provided covering those things outlined in Section 7 of Ten State Standards and AWWA D100.

This includes construction, materials, painting, etc.

Pump House

- Specifications and drawings must be provided covering those things outlined in in Section 6 of Ten State Standards.
- The chlorinator specification is inadequate. Furthermore, more capacity than that needed to apply 1ppm chlorine should be used. - The water may exert a significant chlorine demand if the water contains H2S.

REVIEW OF PLANS AND SPECIFICATIONS OREGON TRAIL MOBILE HOME PARK NUMBER: 78-718

...2

3. Pump spec.s are needed - materials, efficiencies, TDH, etc. If you've got certain pumps in mind, please provide the pump curves.

Sewerage

- 1. Concrete encasement is not acceptable for a sewer water line crossing (spec.3.2.7). A water class pipe section in the sewer is required. See '68 Ten State Standards, Section 8.4.3.
- 2. The following must be provided in the spec.s.
 - a. Specifications for unsuitable sub-grade, and the amount of sub-excavation and backfill required to correct.
 - b. Test and test procedures for:
 - 1. Ovalation.
 - 2. Infiltration/exfiltration for each sewer section (manhole to manhole).
 - Lamping or other test for alignment.
 - c. Backfilling specifications.
 - d. Casing for the sewer under the ore haul road and calculations of loading to on the casing must be provided.

Water Dist: System and

- 1) The specification for post hydrants (1.3.5) I believe you are citing the wrong AWWA spec. It should be AWWA C502 (dry barrel) rather than AWWA C503 (wet barrel).
- 2) In spec. 1.7.2, it should read that 25 ppm residual should be observed after 24 hours.
- 3. We need the following:
 - a. How much bearing area will be provided by the thrust blocks?
 - b. Specifications for types of native and backfill material that are suitable for water settling, and the procedures that will be used.
 - c. Specifications for horizontal separation of water lines and sewers. The 10' separation applies to service connections also (except the riser separations may be closer).
 - d. Please provide a typical water service connection drawing.
 - e. Specifications on installation of water service connection lines.

REVIEW OF PLANS AND SPECIFICATIONS OREGON TRAIL MOBILE HOME PARK NUMBER 78-718

...3

Sewage Lift Station

- 1) How would someone remove the submersible pumps? There are no I bolts or winches provided.
- 2) How would the operator remove the screen basket and clean it?
- 3) There should be a hinged door in the top of the wet well to provide a large, easy-to-open access for the operator.
- 4) The proposed catwalk arrangement is not safe. I daresay this is a violation of OSHA reg.s.
- 5) The drain-from the dry well to the wet_well should not be used....
- 6) Only metal pipe should go through concrete walls due to settling problems. The drawing shows PVC force mainline coming into the dry well.
- 7) Proposed ventilation is inadequate only the very top of the wet well will be ventilated.
- 8) We need the following:
 - a. Spec.s for electrical work. See 468 Ten State Standards, Sect. 32.35.
 - b. Spec.s for the piping and fittings in the wet and dry wells.
 - c. Specifor the ventilating fantam.
 - d. Spec. for the sewage pumps -- materials, efficiencies, etc. ** (If you've 'we certain pumps in mind, please provide pump curves.)

/ <u>X</u> /	New		Permit No78-719 R	
//	Renewal		·	
//	Modified			
	·		IR, JACOB'S RANCH MINE	
	This		orizes the applicant:	
		Kerr-McGee Coal Co	rporation	
	·	(Last)	(First)	(Middle)
		316 Stuart Street		
			(Street or P.O. Box)	
		Laramie, Wyoming	82070	
		(City)	(County)	(State)
		tall, or modify a in Section 14		
in t	he County of	Campbel1		in the State of
Wyom	ning. This pe	rmit shall be effect	tive for a period of _two (2) years
			rmit not to exceed five (5)	
AUTH	ORIZED BY:		•	265
LL') Wiau & Admini Water Quali	strator ty Division	Robert Sann Directo Wyoming Dept. of Envi	- •
	May 7, Date of	1979 Issuance		

[&]quot;The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or opertional requirements."

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
30 East Grinnell
Sheridan, Wyoming 82801

PROJECT:

2nd Enlargement of Barnds Reservoir

Kerr-McGee Jacobs Ranch Mine

ARCHITECT OR ENGINEER:

Paul A. Rechard, P.E. 316 Stuart Street Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER:

78-719

Charles S

REVIEWING ENGINEER:

Tom Mueller Thm

DATE OF REVIEW:

1/30/79

ACTION:

Not Authorized for Construction. See Comments.

COMMENTS:

- 1. The reservoir outlet pipe is shown on the plans with intake elevation of 4655. This is below the design sediment storage level (approximately 4657.4), which is unacceptable. The intake elevation is to be at least two feet above the design sediment storage level.
- 2. The spillway of the dam will have to be raised in order to maintain 36 acre-feet of active storage in the reservoir, in accordance with Comment No. 1.
- 3. Design rainfall runoff was apparently determined by assuming Hydrologic Soil Group B for the entire area under consideration. The soil map indicated that significant portions of the area have soils listed under Group C. Please comment.
- 4. The "Specifications Earthfill In Dam Embankment" should contain requirements to be met in the following areas:
 - Stripping and preparation of the embankment foundation.
 - Seeding and/or other protection of the upstream and downstream dam faces.

marled 1/15/29

PERMIT TO CONSTRUCT

/ <u>x</u> /	New			
//	Renewa1		Permit No. 78-7	20
//	Modified			
		~		
			ick Construction f Facility)	<u> </u>
	This	permit hereby autho	orizes the applica	nt:
		Dewault & Morton		
	•	(Last)	(First)	(Middle)
		153_South Fenway	(Street or P.O.	Box)
		Casper (City)	Natrona (County)	<u>Wyoming 82601</u> (State)
		and the second s		
to con	struct, inst	all or modify a	Commercial Sewag	e Disposal 🕯
facili	ty located i	.n	(Legal Descriptio	n)
in the	County of _	Natrona	,	in the State of
Wyomin	ng. This per	mit shall be effect	tive for a period	of <u>2</u> years
from t	he date of i	issuance of this per	rmit not to exceed	five (5) years.
		•		
				<i>,</i>
			Authorized by:	
1.00	n. P	(P. O. O	Lover 6.	Sundin
Wate	Administrater Quality Di			Director f Environmental Quality

January 2, 1979

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

mailed to S. 1/23/29

	New .		Permit No	78-721
//	Renewal		•	
//	Modified			
		McCANN W	ATERITNE	
			Facility)	
	This	s permit hereby author	izes the applicant:	
		McCann	I.M.	
•	·	(Last) c/o Russ Larson	(First)	(Middle)
		1901 Energy Court, S		
			(Street or P.O. Box)	
		Gillette	Campbell	Wyoming 82716
		(City)	(County)	(State)
• • •			C_ 10G_11	
faci	lity located	stall, or modify a water inSection 26, T.		,
		in Section 26, T.	50N., R.72W. (Legal Description)	
in t	the County of	in Section 26, T.: Campbell	50N., R.72W. (Legal Description)	, in the State of
in t Wyom	the County of ning. This pe	in Section 26, T.	50N., R.72W. (Legal Description) ve for a period of	, in the State of two (2) years
in t Wyom	the County of ning. This pe	in Section 26, T.: Campbell ermit shall be effective	50N., R.72W. (Legal Description) ve for a period of	, in the State of two (2) years
in t Wyom from	the County of ning. This pe	in Section 26, T.: Campbell ermit shall be effective	50N., R.72W. (Legal Description) ve for a period of	, in the State of two (2) years
in t Wyom from	the County of ning. This pen the date of HORIZED BY:	in Section 26, T.: Campbell ermit shall be effective	(Legal Description) ve for a period of it not to exceed five	, in the State of two (2) years

[&]quot;The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or opertional requirements."

mailed to 5.2/28/19

/ <u>X</u> /	New		Permit No. 78-7	22R
//	Renewal			
 /	Modified		·	
			·	
	BLA	CK THUNDER MINE ~ S		-SR1
			Facility)	
	This	permit hereby author	rizes the applicant:	
	·	Thunder Basin Coal	1 Company, Attention (First)	: William Waleski (Middle)
		P.O. Box 1569		
		<u> </u>	(Street or P.O. Bo	ox)
	•	Cillatta	Complete	11
		Gillette (City)	Campbell (County)	
		tall, or modify ai in Section		on)
in t	he County of	Campbel1	L	, in the State of
	_	rmit shall be effecti		
-		issuance of this perm	<u>-</u>	
11011	the date of	rasquiree or three perm	TO HOU TO EXCEED THE	e (J) years.
		·		r
AUTH	ORIZED BY:			
w	Opa Admini	strator ty Division	Lobert Wyoming Dept.	Director of Environmental Quality
	February Date of	23, 1979 Issuance		

[&]quot;The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or opertional requirements."

Chauca ne

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
30 East Grinnell
Sheridan, Wyoming 82801

PROJECT:

Black Thunder Mine - Sedimentation Bond 10-SR1

Thunder Basin Coal Company

ARCHITECT OR ENGINEER: Attention: Mr. William E. Waleski

P.O. Box 1569

Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER:

78-722

REVIEWING ENGINEER:

Dan H. Kim DK

DATE OF REVIEW:

January 23, 1979

ACTION:

Not Authorized for Construction (See Comments);

COMMENTS:

1. Please address how the 8" CMP drawoff pipe will be operated. Is a valve provided at the pipe end? Provide details.

This Department's discharge permit indicates that the drawoff structure should be designed to provide for full recovery, within 15 days after the storm, down to the permanent pool storage elevation, which shall be a minimum of $\frac{2 \text{ feet}}{2 \text{ feet}}$ above the active sediment storage elevation. Your plans, however, show that 8" CMP invert is located at the same elevation with the top level of pool sediment storage. Please clarify.

- 2. Material and installation specifications, including dike compaction, fill material, spillway and ditch material, pipe installation, etc., are needed.
- 3. Will the dike be seeded? Need specifications.
- 4. Detail drawing of 8" CMP pipe termination is needed. Will it be rip-rapped? How long is the 8" CMP pipe?
- 5. Will seepage collars be needed on the CMP pipe?
- 6. Are any provisions needed at the runoff ditch discharging points in the pond to minimize erosion of the pond bottom?

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY DIVISION PERMIT TO CONSTRUCT

prodedts 2.3/13/19

<u>∕</u> X∕ New	•		
/// Renew	val	Permit No	78–723R
/// Modif	fied		
	RIVERTON WATER TREATMENT	PLANT	
•	(Name of	Facility)	
	This permit hereby aut	thorizes the appl	icant:
	CITY OF RIVERTON		
	(Last)	(First)	(Middle)
	P.O. BOX 1700		· · ·
		Street or P.O. Bo	x)
	RIVERTON V	YOMING	82501
	(City)	(State)	(Zip Code)
to consti	ATTN: BILL PETERSON ruct, install, or modi:	Ty a WATER TREATME	ENT PLANT
		T.1N R.4E	
		(Legal Descr	•
in the Co	ounty of FREMONT	, in th	e State of Wyoming.
This per	mit shall be effective	for a period of_	2 years from
the date	of issuance of this pe	ermit not to exce	ed five (5) years.
Authorize Administ Water Qua	our L. Jalana	Director Department Quality	of Environmental
MARCH 5,	1979.		•

Date of Issuance

J& Q

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION 933 MAIN STREET, LANDER, WYOMING, 82520.

(307) 332-3144

١

PROJECT: RIVERTON WATER TREATMENT PLANT

ENGINEER: JIM ABBOTT

HDR, INC.

310 CAPITOL LIFE CENTER

DENVER, COLO 80203

OWNER:

CITY OF RIVERTON c/o BILL PETERSON P.O. BOX 1700

WATER QUALITY VERTON REFERENCE NUMBER: 78-723

REVIEWING ENGINEER: RICK ENGELMANN

DATE OF REVIEW: JANUARY 15, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

Diversion:

1. We need plans of the proposed diversion on the LeClair Canal. (If need be, this could be handled with a separate permit to construct.)

Raw Water Controller

1. What will be the maximum raw water flow rate when influent valve RW.1 is modulated fully open? (See p.17B-1). It is our understanding that this flow rate would be 4 mgd.

Inline Flash Mixer

- 1. The 30" manhole on the mixer vault appears to be too small for removing the mixer or mixer body.
- We need the following:
 - a. Provision for draining this section of the line for maintenance purposes.
 - b. Additional information on the mixer; design G, Gt, and chamber volume. Will it be possible to vary the mixer speed?
 - c. Because there is only one unit, spare parts should be specified.

Flocculation - Sedimentation

1. How would these basins be drained for maintenance?

REVIEW OF PLANS AND SPECS RIVERTON WATER TREATMENT PLANT JIM ABBOTT HDR, INC.

FROM: RICK ENGELMANB - #78-723 JANUARY 15, 1979

- 2 -

2. What is the function of the plexiglass gates between the floc and sed. basins?

Filters

- 1. Are there hose bibs available for filter wash-down?
- 2. It is not clear in the drawings (pM-6) how the individual filter clearwells are connected together.
- 3. If filters were to be added, how would the expansion be made?
- 4. The level elevations specified for the flow controller seem to be inconsistent (p.17B-1).
- 5. How would valves, etc., be pulled out of the pipe gallery?
- 6. What is to prevent the filter boxes from draining completely down? This might occur, for example, if raw water flow were cut off, or if the level in the clearwell dropped.
- 7. The following are needed:
 - a. A valve on the effluent side of the filter to waste pump (p.M-5).
 - b. Specification of the specific gravity of the filter sand (P. 15F-12).
 - c. Specifications for disinfection of the media, filter box, effluent piping, and clearwell.
 - d. Proposed backwash and surface wash rates.
 - e. A sample tap on the influent header.

Transfer Pumps

- 1. How are the pumps controlled?
- The following are needed:
 - a. Access to the pump wet well.
 - b. Floor drains in the pump room.

Chemical Feed

- 1. Though it is specified that the alum tanks be removable, it appears that the chemical floor loading door is too small to permit tank removal.
- 2. The Cl₂ detector should be lower than what is shown on the drawing (M-3).

REVIEW OF PLANS AND SPECS RIVERTON WATER TREATMENT PLANT JIM ABBOTT HDR, INC.

FROM RICK ENGELMANN- 78-723 JANUARY 15, 1979.

- 3 -

- 3. The following are needed:
 - a. Sloped floors and drains in all chemical feed and storage areas.
 - b. Hose bibs for cleaning of the area.
 - c. Overflows on the alum tanks and carbon slurry chamber.
 - d. Chlorine repair kits.
 - e. All other safety equipment outlined in the '68 Ten State Std., Section 5.4.
 - f. Backflow protection is needed for the alum feed water and the feed to the carbon slurry chamber.

General

- What kind of laboratory equipment does the city own? We consider a jar testing outfit, turbidimeter, balance, and hardness, alkalinity, and chlorine residual equipment to be the minimum coagulation plant lab equipment.
- 2. Is it the city's intent to apply for a discharge permit for the wash water pond overflows and presed basin? LaTf so, there must be provision for dscharge measurement.
- 3. If gravity flow, buried pipes are carrying sanitary flow, all sections must be tested for infiltration/exfiltration (P.150-36).

Chlorination System

Unless we receive more information that could convince us otherwise, we will not approve of chlorine gas being conveyed beyond the chlorine room. Vacuum-ejector systems have been around for some years now, yet the '76 revision of Ten State Standards did not see fit to loosen up the standard. (See 1976, 5.4.1.e, and 1968, 5.17.e). Furthermore, keeping chlorine gas in the chlorinator room effectively eliminates any potential for putting Cl₂ into work areas.

Additional

 Does the yard hydrant Josan #1440-N5 (2") (see hydrant detail 3/M-1) have a vacuum breaker on its outlet? How is it protected from freezing? Provide details of the hydrant.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY • WATER QUALITY DIVISION PERMIT TO CONSTRUCT

miled to L. 2/6/19

/X/ New			
/_/ Renewal		Permit No	78-724R
// Modified			
S	OUTH & JONES MOBILE	HOME PARK	
	(Name o	f Facility)	-
		uthorizes the appl	Licant:
S	OUTH & JONES LUMBER (Last)	(First)	(Middle)
	(Dast)	(11100)	(111 00 1 2)
. P	.о. вох 788		
		(Street or P.O. Bo	ox)
E	VANSTON,	WYOMING 82	930
	(City)	(State)	(Zip Code)
		ify a <u>WATER & WASTE</u>	WATER DISTRIBUTION
Tagitty toca	red III	(Legal Desc	ription)
	•		ne State of Wyoming.
This permit s	shall be effectiv	e for a period of	2 years from
the date of	issuance of this	permit not to exce	eed five (5) years.
Authorized by Administrator Water Quality	f Jalo D	Director Department Quality	E. Sundin of Environmental
JANUARY 30, 1	979.	·	

Date of Issuance

UINTA ENGINEERING P.O. BOX 746 EVANSTON, WYO. 82930



REVIEW OF SMALL WASTEWATER FACILITY PLANS WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION 933 Main St., Lander, Wyoming, 82520 (304) 332-3144

OWNER/APPLICANT:

SOUTH & JONES LUMBER COMPANY INC. P.O. BOX 788

EVANSTON, WYO. 82930 3

ADDRESS:

WATER QUALITY DIVISION REFERENCE NUMBER:

78-724

REVIEWING ENGINEER:

DOUG CRAIG DC

DATE OF REVIEW: JANUARY 5, 1979.

ACTION:

NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1. Does the proposed 6 inch water line running west near Riverside Court (Block 8) connect to the existing 6-inch main?in.
- 2. A gate valve is necessary to isolate block 7: 7.
- 3. The blow-offindicated in the city of Evanston spec.s is not acceptable.

 A stop-and-waste valve with an auxiliary gate valve or a standard fire hydrant is acceptable.

REF. NO.

/_/	New	Pe	rmit	No.	78-725R	₹
<u>/X_/</u>	Renewal		•		•	
<u>/X_</u> /	Modified					
		CASTLE HEIGHTS (LARAMIE ADDITION)		•	·	
		(Name of Facility)				
This	permit hereby	authorizes the applicant (name and address)	: ,			
		Yates Corporation				
		PO Box 1016		•		
		Green River, WY 82935				
to co	nstruct, insta	all, or modify a		÷	· · · · · · · · · · · · · · · · · · ·	
		water distribution & wastewater collection				
<u> </u>		facility according to the procedure	s an	d co	nditions o	of the
appli	cation No7	8-725RR . The facility is located in				
		Sec. 35, T17N, R107W				
	· · · · · · · · · · · · · · · · · · ·	in the Count	y of		Sweetwate	· ,
in the	e State of Wyo	oming. This permit shall be effective for a	per	iod	of <u>Two (2</u>	2)
years	(five (5) yea	ers maximum) from the date of issuance of th		ermi	t.	

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The Permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and

C.C. CITY OF	GREEN	RIVER
BOX 127		
GREEN RIVER,	WYO. 8	2935
ATTN: FRED S	SALSBURY	P.E.
DIRECTOR OF		

hrailed to L. 4/4/19

/_X/ New		Permit No78	3-725RR
// Renewal'			
// Modified		•	
	LARAMIE ADDITION-MULT	ΓΙ-FAMILY GREEN RIVER	;
	(Name of	Facility)	
This	s permit hereby author	izes the applicant:	•
	UPLAND INDUSTRIES		
4	(Last)	(First)	(Middle)
4.	110 NO. 14TH ST.		
		(Street or P.O. Box)	
	OMAHA	NEBRASKA	68102
	(City)	(County)	(State)
	ATTN: R. MICHAEL BREN tall, or modify a WAT in SEC. 35, T17N, R107	ER DISTRIBUTION AND WA	STEWATER COLLECTION
. •		(Legal Description)	
in the County of _	SWEETWATER		_, in the State of
Wyoming. This pèr	rmit shall be effective	e for a period of	2 years
from the date of i	issuance of this permit	not to exceed five (5) years.
AUTHORIZED BY:			
Adminis Water Qualit	trator y Division	Governo Dire Wyoming Dept. of B	Sundin ector Environmental Quality
MARCH 20, 1	L979		
Date of I	SSIIANCE		•

[&]quot;The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or opertional requirements."

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION 933 MAIN STREET. LANDER, WYOMING, 82520.

(307) 332-3144

PROJECT:

LARAMIE ADDITION - MULTI FAMILY

SEC. 35, T17N R107W GREEN RIVER

SWEETWATER, COUNTY

ENGINEER:

R. MICHAEL BRENNEMAN, P.E.

UPLAND INDUSTRIES

110 NO. 14TH

OMAHA, NEBRASKA 68102

OWNER:

WATER QUALITY DIVISION REFERENCE NUMBER:

78-725 R

REVIEWING ENGINEER:

DAVID W. HILL

DATE OF REVIEW:

FEBRUARY 14, 1979

ACTION: NOT AUTHORIZED.

COMMENTS:

- 1. The comment concerning water main storm sewer crossings was not addressed.
- 2. A letter or copy of approved drawings is still needed from the city of Green River.

c.c. City of Green River, P.O. Box 127, Green River, Wyo. 82935.

ATTN: FRED SALSBURY, P.E.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION 933 MAIN STREET, LANDER, WYOMING 82520

PROJECT:

LARAMIE ADDITION - MULTIFAMILY

SEC. 35, T17N, R.107W

GREEN RIVER, SWEETWATER COUNTY

ARCHITECT OR ENGINEER: R. MICHAEL BRENNEMAN, P.E.

UPLAND INDUSTRIES

OMAHA, NEBRASKA, 68102

110 NO. 14TH

WATER QUALITY DIVISION REFERENCE NUMBER: 78-725

REVIEWING ENGINEER:

DAVID W. HILL

DATE OF REVIEW:

JANUARY 10, 1979

ACTION:

NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

WATER SYSTEM

- Indicate working pressure in system.
- 2. The specifications submitted do not cover PVC water pipe.
- How deep will water line be buried?
- 4. Address water main storm sewer crossings How will the water main be by protected?
- 5. Details are needed for the blow-offs.
- Details are needed concerning the water meter and pit. Can the water meter be repaired or replaced without a long delay in water service to the multi-family dwellings? A bypass may be needed.
- The northernmost four-inch line blowoff is too close to the sewer line and manhole. It should be moved at least 10 ft. away to help prevent any contamination problems.

The same goes for the southeast line blowoff and storm sewer.

SEWER SYSTEM

- 8. Deflection testing is needed for PVC pipe. Submit details.
- Submit detailed specifications for water or low pressure air infiltration exfiltration testing.
- 10. The use of the Town of Green River Sewer Specifications can satisfy the above two comments.

- 11. A letter is needed from the City of Green River indicating they will provide sewer service for this development.
- 12. This cannot necessarily be considered a final review.

c.c. City of Green River, P.O. Box-127 Green River, Wyo. 82935

Attn: Fred Salsbury, P.E.

mailed 3/hq.

/ ▼ / New	· · · · · · · · · · · · · · · · · · ·	Permit No	78-727	<u> </u>
/ / Renewal				
/ Modified				•
/		×		
Riv	verside Industri	al Park, Lot 5		
	(Name of I	acility)	(n	
This permit	hereby authoriz	es the applica	ant:	
·	•			
Land	lmark Constructi			
(L:	ast)	(First	t)	(Middle)
<u> Draw</u>	ver 5	(Street or P.0). Box)	
		(00) 000		•
Doug]las	Converse	1	lyoming 82633
(C	ity)	(County)		(State)
	W Transmiss	and the second second		
to construct, install, or	r modify a <u></u> §	mall Waste Fac	ility (Comme	ccial) /
facility located inSe	ection 17, T32N,			<u> </u>
		(Legal Descr	iption)	
Cor	nverse			
in the County ofCor	iverse		, i:	n the State of
Wyoming. This permit sha	all be effective	for a period	of2	years
from the date of issuance	e of this permit	not to exceed	d five (5) ye	ears.
	•	. V		· · · · · · · · · · · · · · · · · · ·
AUTHORIZED BY:				
			حصر	0
10900: Q-(Da	. Can D	Hob	erb 6,	Sundin
Administrator			Director	
Water Quality Divi	sion	Wyoming De	ept. of Envir	ronmental Quality
	S .	•		
2/20/79				→

[&]quot;The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or opertional requirements."